



SAMRUDH

Architects and Interior Designers

Job No.: SAM/BBMP/YCLP/W.No.11/2019-20

Date: 19.08.2019

TEST REPORT

CLIENT	:	Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.
AGENCY	:	Sri. Y C Lakshmi Prasad (M/s. Samrudh Architect), Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to Roads and Drains around Ramachandrapura, Kuvempunagara, Vaishnavi Layout, Srinidhi Layout and Sai Garden in Ward No.11 Kuvempunagara, BBMP, Bangalore.
SAMPLE ID	:	Cement (Dalmia OPC 53 Grade)
DATE OF MANUFACTURE	:	July - 2019
DATE OF TESTING	:	17.08.2019 to 19.08.2019
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	450 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

Note:

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Architects and Interior Designers

Job No.: SAM/BBMP/YCLP/W.No.11/2019-20

Date : 19.08.2019

TEST REPORT ON FINE AGGREGATES (SAND) IS 383-1970 (RA- 2002)

Client : Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.
Agency : Sri. Y C Lakshmi Prasad (M/s. Samrudh Architect), Contractor, Bangalore.
Name of Work : Improvements to Roads and Drains around Ramachandrapura, Kuvempunagara, Vaishnavi Layout, Srinidhi Layout and Sai Garden in Ward No.11 Kuvempunagara, BBMP, Bangalore.

Date of Testing : 19.08.2019

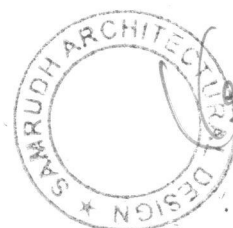
Material : Sand

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	84	8.40	8.40	91.6	90-100
2.36	135	13.50	21.90	78.1	75-100
1.18	146	14.60	36.50	63.5	55-90
600 Micron	225	22.50	59.00	41.0	35-59
300 Micron	215	21.50	80.50	19.5	8-30
150 Micron	160	16.00	96.50	3.5	0-10

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Job No.:

SAM/BBMP/YCLP/W.No.11/2019-20

Date : 19.08.2019

TEST REPORT ON COARSE AGGREGATES IS 383-1970 (RA- 2002)

Client

: Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Agency

: Sri. Y C Lakshmi Prasad (M/s. Samrudh Architect), Contractor, Bangalore.

Name of Work

: Improvements to Roads and Drains around Ramachandrapura, Kuvempunagara, Vaishnavi Layout, Srinidhi Layout and Sai Garden in Ward No.11 Kuvempunagara, BBMP, Bangalore.

Date of Testing : 19.08.2019

Material : 40mm Aggregates

Total wt. of aggregates in gms = 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	184	1.23	1.23	98.77	95-100
20	4932	32.88	34.11	65.89	30-70
10	5636	37.57	71.68	28.32	10-35
4.75	3820	25.47	97.15	2.85	0-5

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Job No.: SAM/BBMP/YCLP/W.No.11/2019-20

Date: : 19.08.2019

TEST REPORT ON COARSE AGGREGATES IS 383-1970 (RA- 2002)

Client : Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.
Agency : Sri. Y C Lakshmi Prasad (M/s. Samrudh Architect), Contractor, Bangalore.
Name of Work : Improvements to Roads and Drains around Ramachandrapura, Kuvempunagara, Vaishnavi Layout, Srinidhi Layout and Sai Garden in Ward No.11 Kuvempunagara, BBMP, Bangalore.

Date of Testing : 19.08.2019

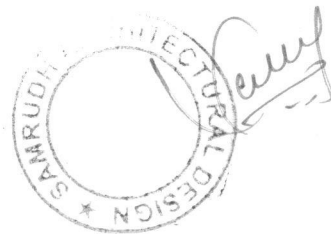
Material : 20mm Aggregates

Total wt. of aggregates in gms = 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	189	3.8	3.8	96.2	95-100
10	2930	58.6	62.4	37.6	25-55
4.75	1468	29.4	91.7	8.3	0-10

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Job No.: SAM/BBMP/YCLP/W.No.11/2019-20

Date : 01.07.2019

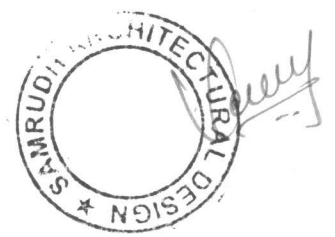
TEST REPORT ON SOLID CONCRETE BLOCKS

Client : Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.
Agency : Sri. Y C Lakshmi Prasad (M/s. Samrudh Architect), Contractor, Bangalore.
Name of the Work : Improvements to Roads and Drains around Ramachandrapura, Kuvempunagara, Vaishnavi Layout, Srinidhi Layout and Sai Garden in Ward No.11 Kuvempunagara, BBMP, Bangalore.
Date of Testing : 01.07.2019
Size of Blocks : 400mm x 150mm x 200mm
Cross Sectional Area : 60000 mm²
Technical Reference : IS: 2185 (Part 1) - 2005
No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm ²)	Block Density (Kg/m ³)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	26.5	236.5	3.94	2208.33	Minimum required Compressive Strength of Individual Units 3.5N/mm ²
2	Block 2	25.8	230.5	3.84	2150.00	
3	Block 3	24.9	228.9	3.82	2075.00	
4	Block 4	25.3	226.4	3.77	2108.33	

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SAMRUDH

Architects and Interior Designers

Job No: SAM/BBMP/YCLP/W.No.11/2019-20

22.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Agency : Sri. Y C Lakshmi Prasad (M/s. Samrudh Architect), Contractor, Bangalore.

Name of the work : Improvements to Roads and Drains around Ramachandrapura, Kuvempunagara, Vaishnavi Layout, Srinidhi Layout and Sai Garden in Ward No.11 Kuvempunagara, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₁₅

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	15.07.2019	22.07.2019	8.132	268.9	11.95
2	15.07.2019	22.07.2019	8.128	285.2	12.68
3	15.07.2019	22.07.2019	8.116	276.5	12.29

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SAMRUDH

Architects and Interior Designers

Job No: SAM/BBMP/YCLP/W.No.11/2019-20

12.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Agency : Sri. Y C Lakshmi Prasad (M/s. Samrudh Architect), Contractor, Bangalore.

Name of the work : Improvements to Roads and Drains around Ramachandrapura, Kuvempunagara, Vaishnavi Layout, Srinidhi Layout and Sai Garden in Ward No.11 Kuvempunagara, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Gross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₁₅

Compressive Strength as on : 28th day

S.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	15.07.2019	12.08.2019	8.168	369.6	16.43
2	15.07.2019	12.08.2019	8.185	395.2	17.56
3	15.07.2019	12.08.2019	8.192	376.5	16.73

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Architects and Interior Designers

Job No.: SAM/BBMP/YCLP/W.No.11/2019-20

22.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Agency : Sri. Y C Lakshmi Prasad (M/s. Samrudh Architect), Contractor, Bangalore.

Name of the work : Improvements to Roads and Drains around Ramachandrapura, Kuvempunagara, Vaishnavi Layout, Srinidhi Layout and Sai Garden in Ward No.11 Kuvempunagara, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Gross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₁₅

Compressive Strength as on : 7th day

S.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	15.07.2019	22.07.2019	8.115	265.2	11.79
2	15.07.2019	22.07.2019	8.132	284.6	12.65
3	15.07.2019	22.07.2019	8.128	276.3	12.28

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Architects and Interior Designers

Job No.: SAM/BBMP/YCLP/W.No.11/2019-20

12.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Agency : Sri. Y C Lakshmi Prasad (M/s. Samrudh Architect), Contractor, Bangalore.

Name of the work : Improvements to Roads and Drains around Ramachandrapura, Kuvempunagara, Vaishnavi Layout, Srinidhi Layout and Sai Garden in Ward No.11 Kuvempunagara, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Gross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₁₅

Compressive Strength as on : 28th day

S.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	15.07.2019	12.08.2019	8.168	360.9	16.04
2	15.07.2019	12.08.2019	8.184	366.4	16.28
3	15.07.2019	12.08.2019	8.156	379.1	16.85

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12.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Agency : Sri. Y C Lakshmi Prasad (M/s. Samrudh Architect), Contractor, Bangalore.

Name of the work : Improvements to Roads and Drains around Ramachandrapura, Kuvempunagara, Vaishnavi Layout, Srinidhi Layout and Sai Garden in Ward No.11 Kuvempunagara, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Gross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₁₅

Compressive Strength as on : 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	15.07.2019	12.08.2019	8.165	384.5	17.09
2	15.07.2019	12.08.2019	8.181	376.9	16.75
3	15.07.2019	12.08.2019	8.170	380.4	16.91

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Job No.: SAM/BBMP/YCLP/W.No.11/2019-20

22.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Agency : Sri. Y C Lakshmi Prasad (M/s. Samrudh Architect), Contractor, Bangalore.

Name of the work : Improvements to Roads and Drains around Ramachandrapura, Kuvempunagara, Vaishnavi Layout, Srinidhi Layout and Sai Garden in Ward No.11 Kuvempunagara, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₁₅

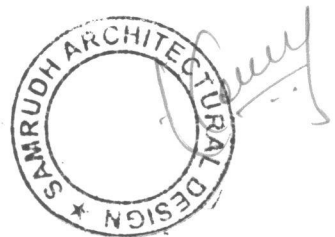
Compressive Strength as on : 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	15.07.2019	22.07.2019	8.124	275.9	12.26
2	15.07.2019	22.07.2019	8.116	281.2	12.50
3	15.07.2019	22.07.2019	8.108	268.1	11.92

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SAMRUDH

Architects and Interior Designers

Ref: SAM/BBMP/YCLP/W.No.11/2019-20

Date: 27.07.2019

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client : Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Contractor : Sri. Y C Lakshmi Prasad (M/s. Samrudh Architect), Contractor, Bangalore.

Name of Work : Improvements to Roads and Drains around Ramachandrapura, Kuvempunagara, Vaishnavi Layout, Srinidhi Layout and Sai Garden in Ward No.11 Kuvempunagara, BBMP, Bangalore.

Slab Sample Tested : 03

Date of Testing : 27.07.2019

Technical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M₁₅

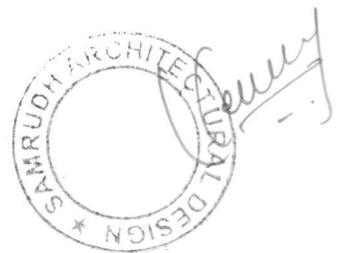
Sl. No.	Dia of Core (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
01	50.00	80.00	0.368	2342.76	1.60	0.960	25.60	13.04	14.08	13.52	16.90
02	50.00	85.00	0.399	2390.69	1.70	0.960	26.80	13.65	14.74	14.15	17.69
03	50.00	81.00	0.375	2357.85	1.62	0.960	25.80	13.14	14.19	13.62	17.03

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SAMRUDH

Architects and Interior Designers

Date : 08.08.2019

GRADATION FOR GSB (Coarse Graded Grading-V) IS : 2720 (Part - 4)

Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

M/s. T.C. Lakshmi Prasad (M/s. Samrudh Architect), Contractor, Bangalore.

Improvement to Roads and Drains around Ramachandrapura, Kuvempunagara,

Suburban Layout, Sindhi Layout and Sai Garden in Ward No.11 Kuvempunagara, BBMP,

Bangalore.

Project No. 100/2019

Oven Dry Wt (gm) : 20000

Sieve Size	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
75	-	-	-	100	100
150	1358	1358	6.79	93.21	80-100
300	2340	3499	17.50	82.51	55-90
475	1522	8820	44.10	55.90	35-65
75	4032	12972	64.86	35.14	25-50
150	4625	17597	87.99	12.02	10-20
300	1526	19123	95.62	4.38	2-10
475	118	19241	96.21	3.80	0-5
75	15	-	-	-	-

As per Table : 400-13)

Particulars	Test Results	Standards as per Specifications
Liquid Limit, %	22.00	25.0% Maximum.
Plasticity Index, %	Non Plastic	6.0% Maximum.

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SAMRUDH

Architects and Interior Designers

BBMP/YCLP/W.No.11/2019-20

08.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date : Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

By : Sri. Y C Lakshmi Prasad (M/s. Samrudh Architect), Contractor, Bangalore.

Name of the work : Improvements to Roads and Drains around Ramachandrapura, Kuvempunagara, Vaishnavi Layout, Srinidhi Layout and Sai Garden in Ward No.11 Kuvempunagara, BBMP, Bangalore.

Sample ID : Cement Concrete for Road

Dimensions : 150mmx150mmx150mm

Cross-sectional Area : 22500 mm²

Standard Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₃₀

Compressive Strength as on : 7th day

S.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
01	08.09.2019	08.09.2019	8.215	508.2	22.59
02	08.09.2019	08.09.2019	8.236	516.3	22.95
03	08.09.2019	08.09.2019	8.225	532.2	23.65

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BBMP/YCLP/W.No.11/2019-20

05.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

: Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

: Sri. Y C Lakshmi Prasad (M/s. Samrudh Architect), Contractor, Bangalore.

: Improvements to Roads and Drains around Ramachandrapura, Kuvempunagara, Vaishnavi Layout, Srinidhi Layout and Sai Garden in Ward No.11 Kuvempunagara, BBMP, Bangalore.

: Cement Concrete for Road

: 150mmx150mmx150mm

: 22500 mm²

: IS: 516-1959 (Reaffirmed 2008)

: M₃₀

: 7th day

	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
01	28.08.2019	05.09.2019	8.215	508.2	22.59
02	28.08.2019	05.09.2019	8.236	516.3	22.95
03	28.08.2019	05.09.2019	8.225	532.2	23.65

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